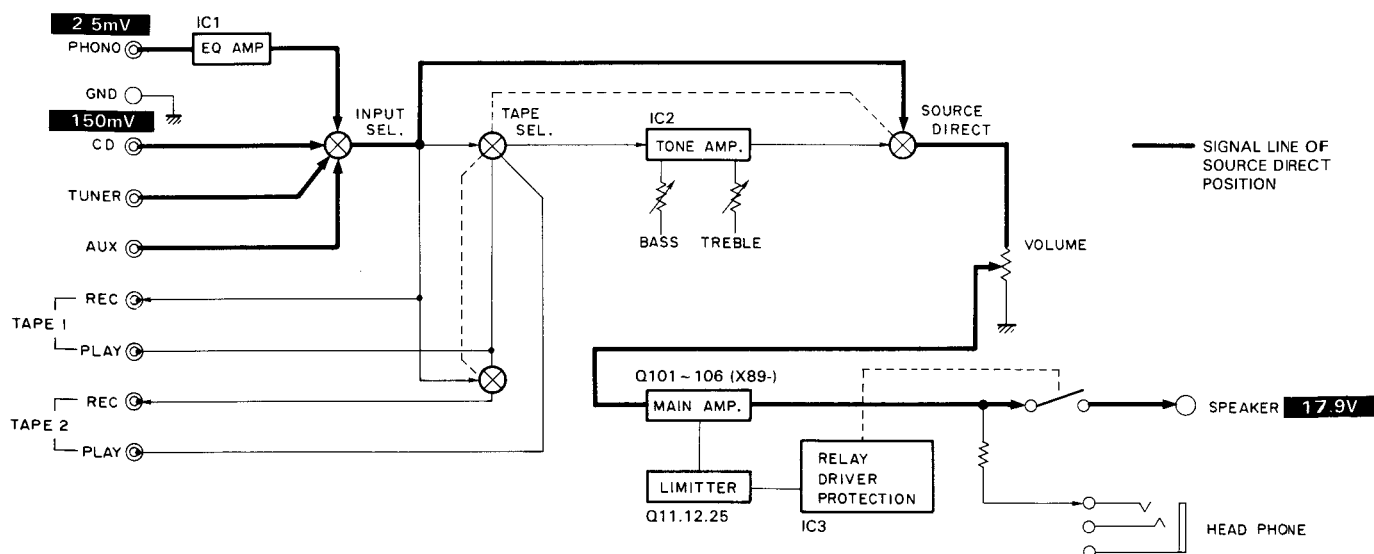


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## BLOCK & LEVEL DIAGRAM



## CIRCUIT DESCRIPTION

### DESCRIPTION OF COMPONENTS

Audio unit (X09-3642-71)

Component	Use/Function	Operation/Condition/Compatibility
Q11, 12	Protection	Current limiter Tr. Used to limit the current flowing to the final Tr in case of an overload drive.
Q21, 22	AVR for EQ power supply	
Q23, 24	PHONO shock noise prevention	
Q25	Protection	Transmits the operation signals of current limiter Q11 and Q12 to the protection IC (IC3).
IC1 (M5218P-A)	EQ circuit operation amp	
IC2 (M5218P-A)	Tone circuit operation amp	
IC3 ( $\mu$ PC1237HA)	Protection IC	
D1, 2	Current limiter	1SS131 or 1SS178
D11, 12	Static electricity protection	1SS133 or 1SS176
D13, 14	Constant current for the EQ power supply	E-452
D15, 16	Constant voltage for the EQ power supply	RD16ES (B2) or HZS16N (B2)
D17	Constant voltage for the Class A power supply	RD15JS (B) or HZS15S (B)
D18	Protection	1SS131 or 1SS178
D19	LED power supply	DSM1A1 or S5566B
D20	Power rectifier diode	RBV-602LFA or D5SBA20F03
D21	Headphone shock noise prevention	DSM1A1 or S5566B
D22, 23	Constant-voltage tone circuit power supply	RD16ES (B2) or HZS16N (B2)
D24	Relay	1SS131 or 1SS178
D26, 27	Indicator LEDs	D26: For SOURCE DIRECT    D27: For POWER

## ADJUSTMENT/REGLAGES/ABGLEICH

### ADJUSTMENT

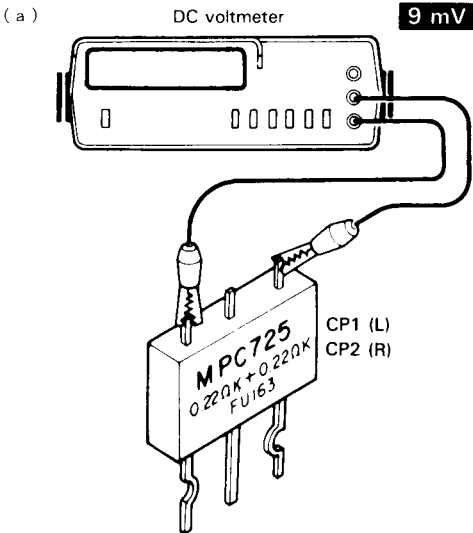
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as follows. POWER: ON    SPEAKER: B    REC OUT: OFF    SELECTOR: PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R) (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X89-) (X07-)	9mV	(a)

### REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
Sauf en cas d'indications spéciales, régler chaque commutateur comme suit. POWER:ON    SPEAKER: B    REC OUT: OFF    SELECTOR:PHONO							
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC SUR CP1 (G) CP2 (D) (X09-)	VOLUME: 0	VR1 (G) VR2 (D) (X89-) (X07-)	9mV	(a)

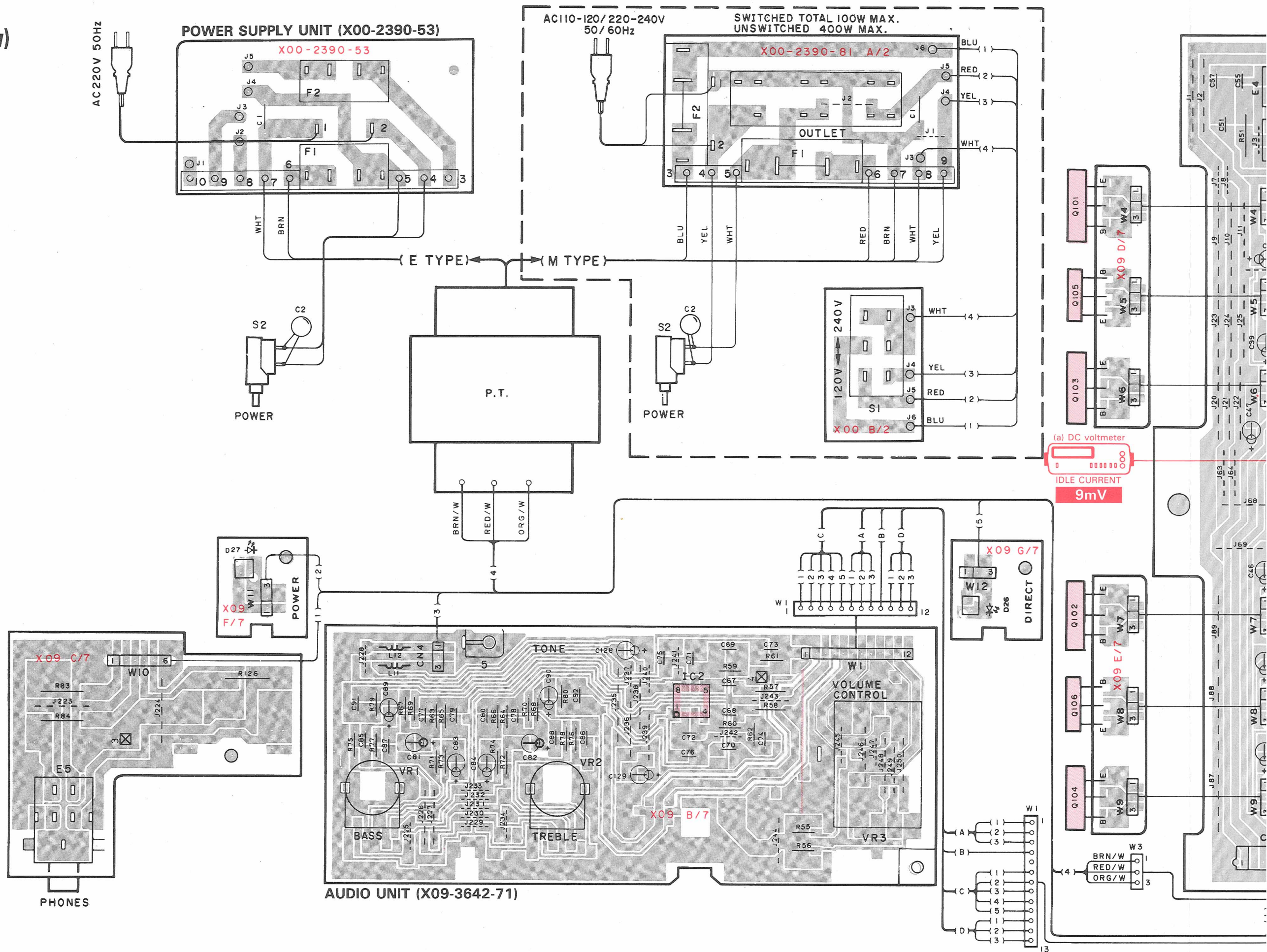
### ABGLEICH

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen. POWER: ON    SPEAKER: B    REC OUT: OFF    SELECTER: PHONO							
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschießen. (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X89-) (X07-)	9mV	(a)

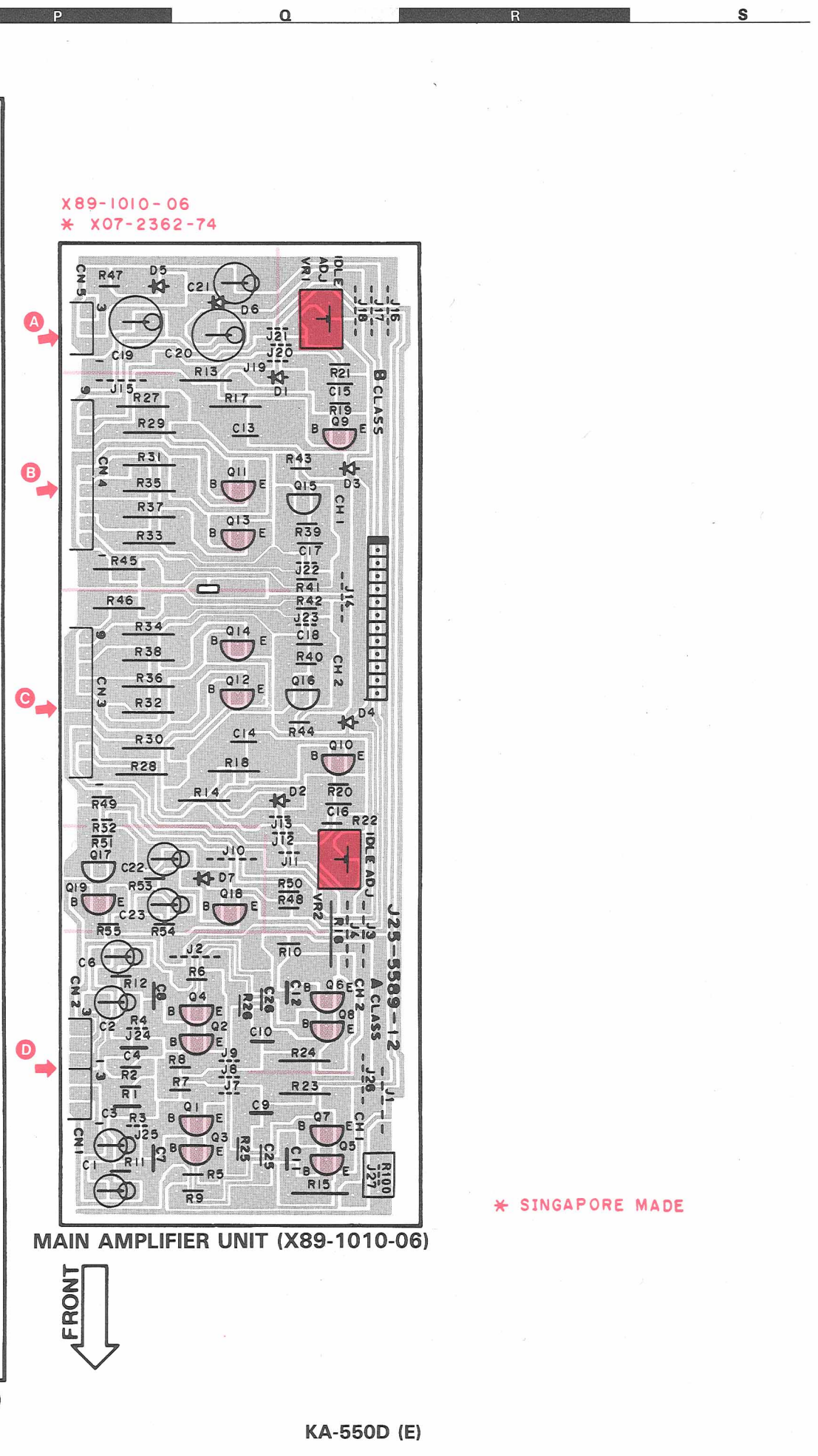
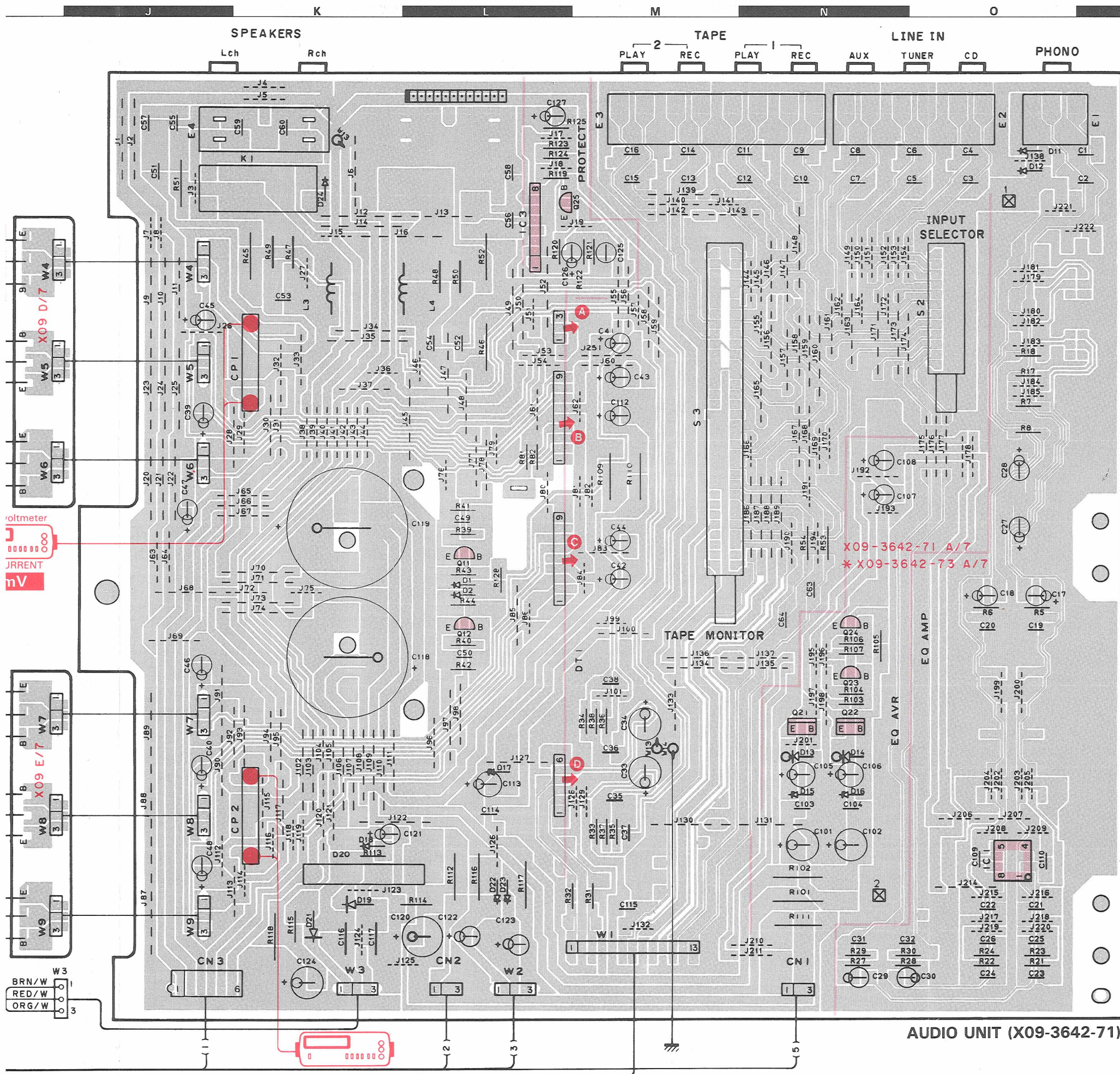




# PC BOARD (Component side view)







Refer to the schematic diagram for the values of resistors and capacitors.



FRONT

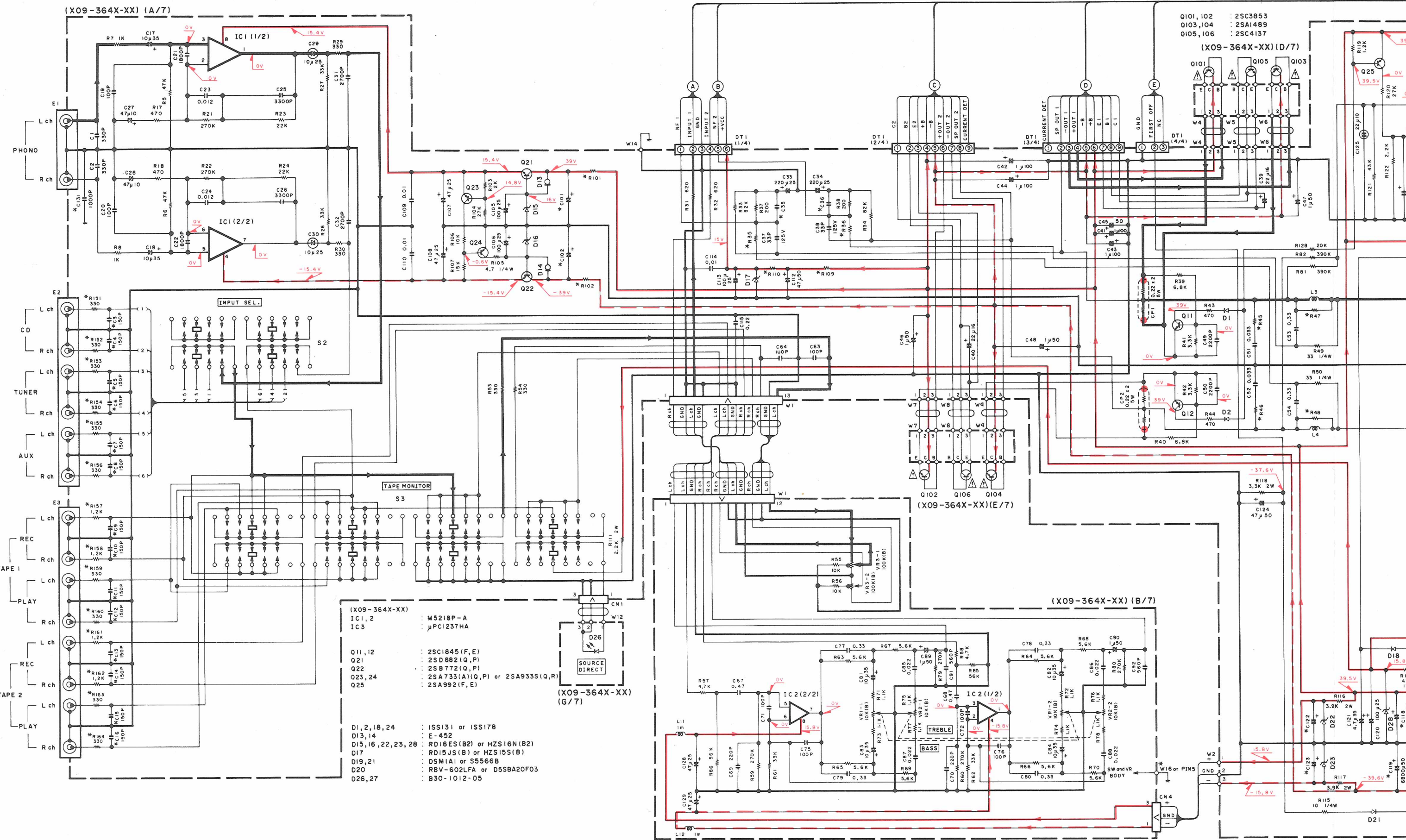
[illegible]

DIRECT 







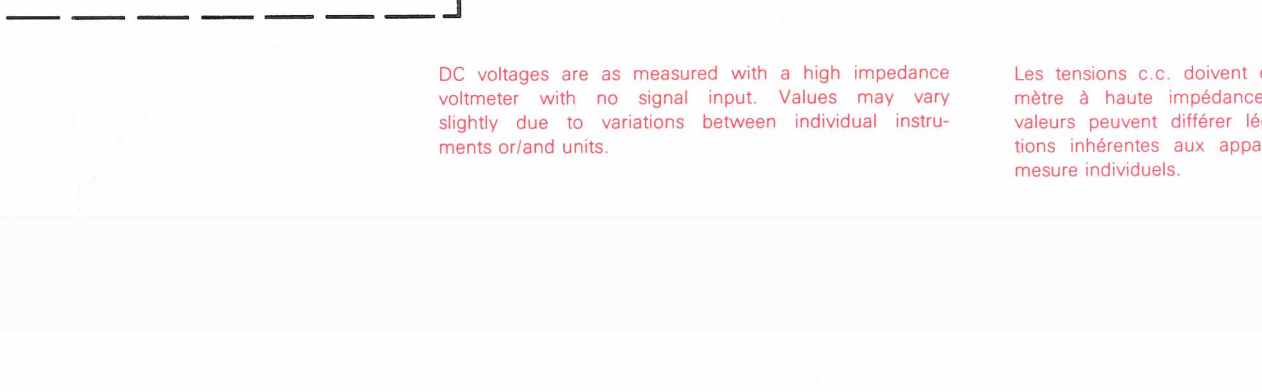
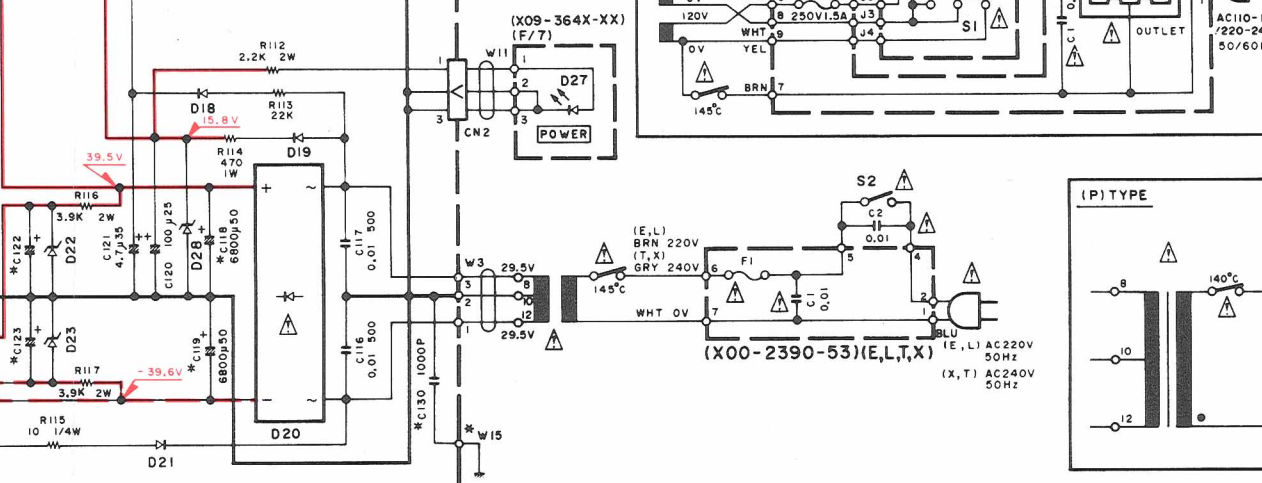
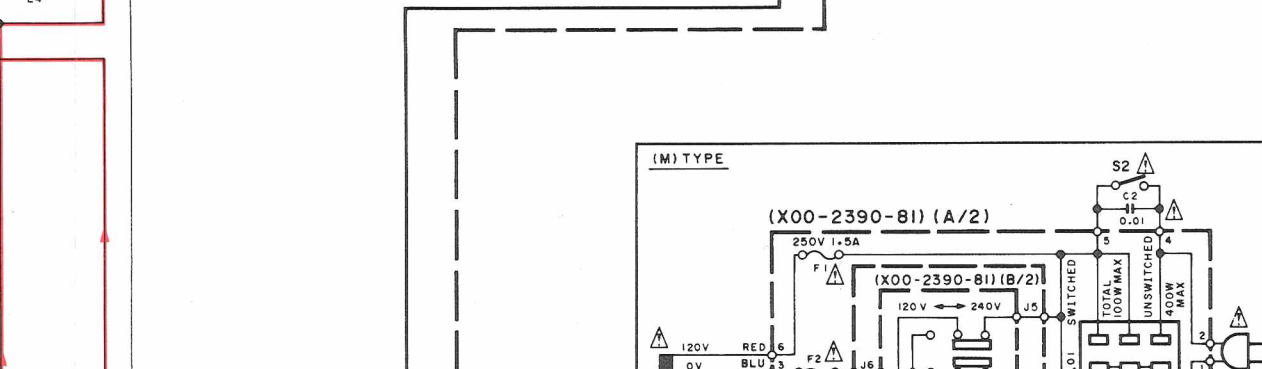
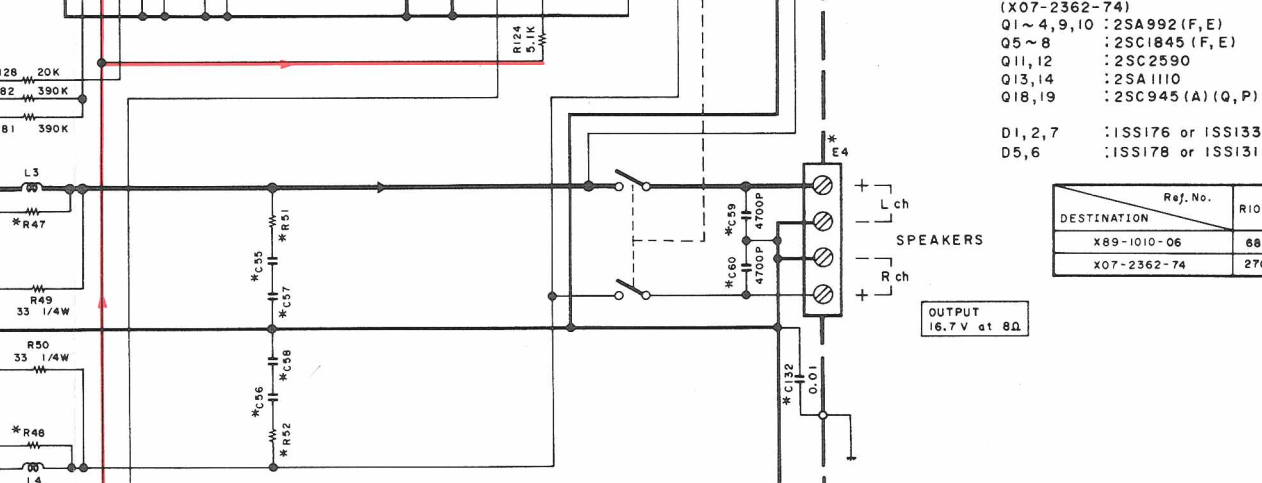
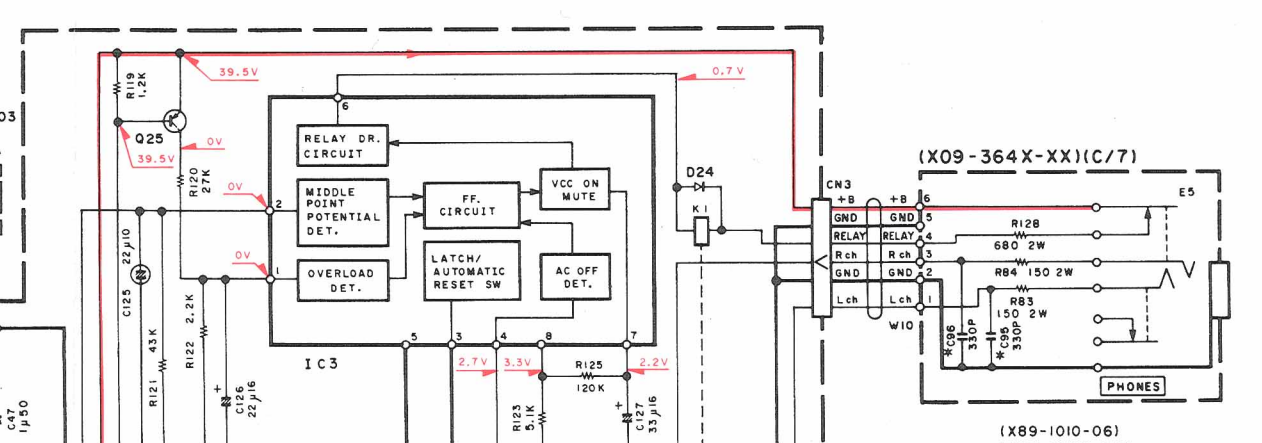
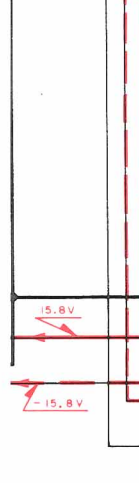
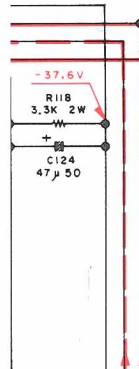
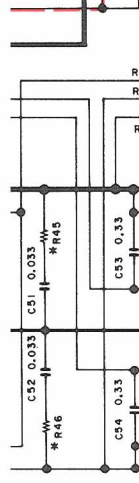
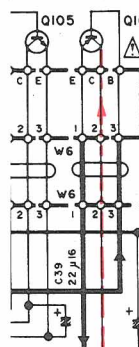


- 7
- 2SA733 (A)  
2SA992  
2SC1845  
2SC945 (A)
- 2SA1110  
2SB772  
2SC2590  
2SD882
- 2SA1489
- 2SC3853
- 2SA933S
- 2SC4137
- M5218P-A
- μPC1237HA

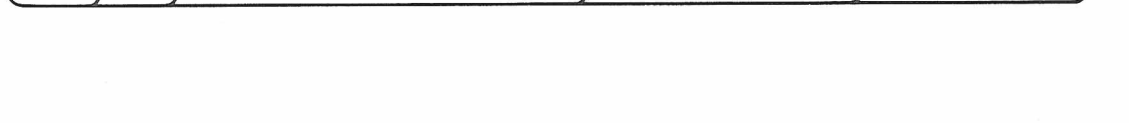
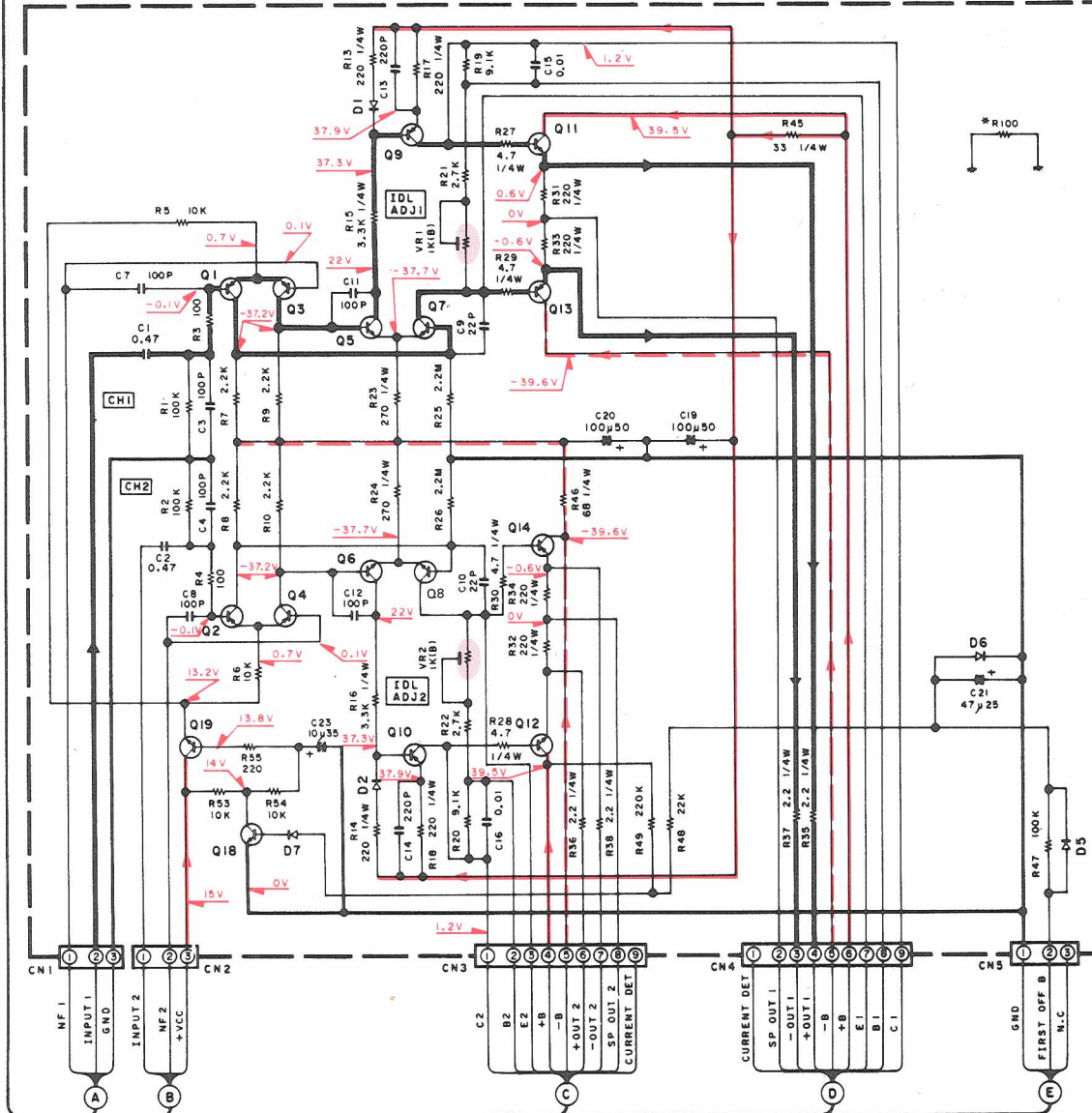


SC3853  
SA1489  
SC4137

4X-XX(D/7)



(X89-1010-06) JAPAN MADE  
(X07-2362-74) SINGAPORE MADE



DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
2-71	2-73	E	22K 1/4W	4.7 2W	10 1/4W	1 1W	1.8K 2W	330	1.2K	150P	220P
1-72	1-74	L, M, X, P	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P
0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
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1-72	1-74	L, M, X, P	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P
0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
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0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

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DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
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0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
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0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

DESTINATION	Ref. No.	R35, 36	R45, 46, 51, 52	R47, 48	R101, 102	R109, 110	R151 ~ 156, 159 160, 163, 164	R157, 158 161, 162	C3 ~ 16	C35, 36	C55 ~ 58
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1-72	1-74	L, M, X, P	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P
0-52	0-54	T	22K 1/6W	10 2W	4.7 1/4W	220 1/4W	1.8K 1/4W	NO	NO	NO	100P

KA-550D(E)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

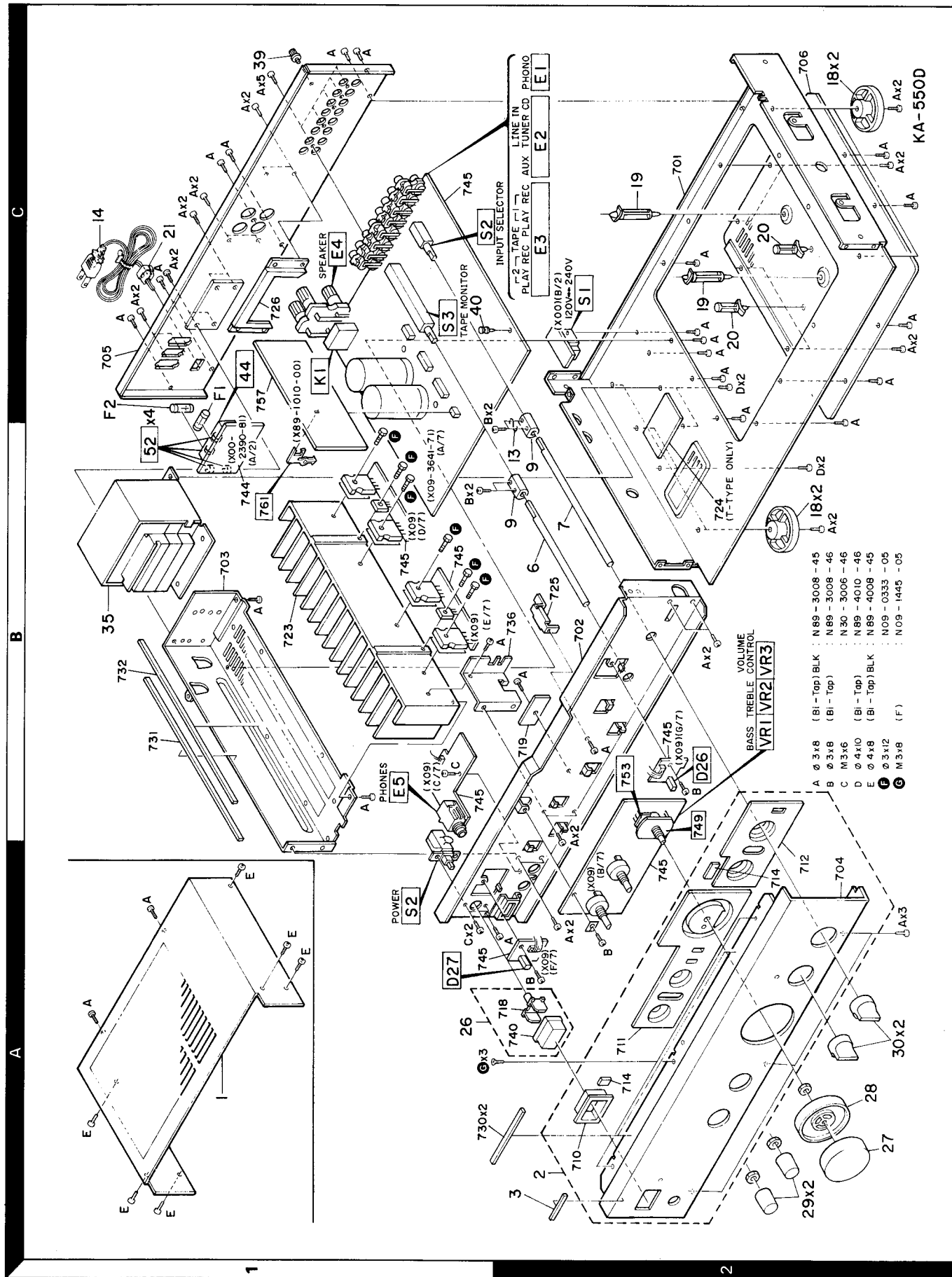
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

KA-550D  
KENWOOD



## EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

## PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KA-550D						
1	1A	*	A01-1658-01	METALLIC CABINET		
2	2A	*	A20-5546-02	PANEL ASSY		
3	2A		B43-0278-04	KENWOOD BADGE		
			B46-0096-13	WARRANTY CARD	X	
			B46-0121-03	WARRANTY CARD	P	
			B46-0122-13	WARRANTY CARD	EL	
			B46-0143-03	WARRANTY CARD	T	
		*	B50-8950-00	INSTRUCTION MANUAL(ENGLISH)		
		*	B50-8951-00	INSTRUCTION MANUAL(FRENCH)	ELMXP	
		*	B50-8952-00	INSTRUCTION MANUAL(G,D,I)	EL	
		*	B50-8953-00	INSTRUCTION MANUAL(SPANISH)	M	
			B58-0803-13	CAUTION CARD	E	
△ C2			C91-0023-05	CERAMIC 0.01UF AC250V	M	
△ C2			C91-0647-05	CERAMIC 0.01UF P	ELXTP	
6	2B		D21-1445-04	EXTENSION SHAFT(S-DIRECT)		
7	2B		D21-1446-04	EXTENSION SHAFT(TAPE SEL)		
9	2B,2C		D22-0063-04	SHAFT COUPLING (TAPE SEL)		
13	2B,2C	*	E29-0320-04	LEAD PLATE		
14	1C		E30-0459-05	AC POWER CORD	EL	
14	1C		E30-0812-05	AC POWER CORD	M	
14	1C		E30-0974-05	AC POWER CORD	P	
14	1C		E30-1341-05	AC POWER CORD	X	
14	1C		E30-1416-05	AC POWER CORD	T	
△ F1	1C		F05-1623-05	FUSE (SEMKO) (250V T1.6A)	ELXT	
△ F1	1C		F06-3023-05	FUSE (UL) (250V 3A)	P	
△ F1	2		F05-1521-05	FUSE (250V 1.5A)	M	
		*	H01-7880-04	ITEM CARTON CASE		
		*	H10-3625-12	POLYSTYRENE FOAMED FIXTURE		
		*	H10-3626-12	POLYSTYRENE FOAMED FIXTURE		
			H25-0225-04	PROTECTION BAG (850X450X0.03)		
			H25-0232-04	PROTECTION BAG (235X350X0.03)		
18	2B,2C		J02-0378-05	FOOT		
19	2C		J19-0515-05	UNIT HOLDER (H-14.6)		
20	2C		J19-2536-05	UNIT HOLDER		
21	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
26	1A		K29-3212-04	KNOB ASSY(BUTTON) POWER		
27	2A	*	K29-3213-04	KNOB (VOLUME)		
28	2A	*	K29-3214-04	KNOB (VOLUME)		
29	2A	*	K29-3215-04	KNOB (BASS, TREBLE)		
30	2A	*	K29-3216-04	KNOB (TAPE MONI, INPUT SEL)		
△ 35	1B	*	L01-5291-05	POWER TRANSFORMER	P	
△ 35	1B	*	L01-5292-15	POWER TRANSFORMER	EL	
△ 35	1B	*	L01-5295-05	POWER TRANSFORMER	M	
△ 35	1B	*	L01-5297-15	POWER TRANSFORMER	XT	
39	1C		N08-0128-35	BINDING POST (GND)		
40	1C	*	N29-0255-05	PUSH RIVET		
F	1B		N09-0333-05	TAPPING SCREW (3X12) TR		
6	2A		N09-1445-05	SET SCREW (M3X8) PANEL		
△ S2	1A		S40-1066-05	PUSH SWITCH (POWER TYPE)		

E: Europe

K: USA

P: Canada

U: PX(Far East, Hawaii)

T: England

M: Other Areas

UE: AAFES(Europe)

X: Australia

L: Scandinavia

△ indicates safety critical components.

## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
Q101,102 Q103,104 Q105,106			2SC3853 2SA1489 2SC4137	TRANSISTOR TRANSISTOR TRANSISTOR		
<b>POWER SUPPLY UNIT (X00-2390-53)</b>						
C1 C1			C91-0023-05 C91-0647-05	CERAMIC 0.01UF AC250V CERAMIC 0.01UF P	M ELXTP	
44 44	1C 1C	*	E03-0077-05 E03-0078-05	AC OUTLET AC OUTLET	M P	
52 52	1B 1B		J13-0041-05 J13-0054-05	FUSE CLIP (Ø6) FUSE CLIP (Ø5)	MP ELXT	
S2	2C		S31-2126-05	SLIDE SWITCH (POWER TYPE)	M	
<b>AUDIO UNIT (X09-3642-71)</b>						
D26 ,27	1A,2B		B30-1012-05	LED(SLP-981C-50)SOURCE DIR ,POW		
C1 ,2 C3 C4 C5 C6			CF92FV1H331K CF92FV1H151K CF92FV1H151K CF92FV1H151K CF92FV1H151K	MF 330PF K MF 150PF K MF 150PF K MF 150PF K MF 150PF K		
C7 C8 ,9 C10 C11 C12 ,13		*	CF92FV1H151K CF92FV1H151K CF92FV1H151K CF92FV1H151K CF92FV1H151K	MF 150PF K MF 150PF K MF 150PF K MF 150PF K MF 150PF K		
C14 C15 C16 C17 ,18 C19 ,20		*	CF92FV1H151K CF92FV1H151K CF92FV1H151K CE04KW1V100M CC45FSL1H101J	MF 150PF K MF 150PF K MF 150PF K ELECTRO 10UF 35WV CERAMIC 100PF J		
C21 ,22 C23 ,24 C25 ,26 C27 ,28 C29 ,30			CF92FV1H182J CF92FV1H123J CF92FV1H332J CE04KW1A470M C90-1332-05	MF 1800PF J MF 0.012UF J MF 3300PF J ELECTRO 47UF 10WV NP-ELEC 10UF 25WV		
C31 ,32 C33 ,34 C35 ,36 C35 ,36 C37 ,38			CF92FV1H272J CE04KW1E221M CQ09FS1H101J CQ09FS1H221J C91-0172-05	MF 2700PF J ELECTRO 220UF 25WV POLYSTY 100PF J POLYSTY 220PF J POLYSTY 33PF K		LMXTP E
C39 ,40 C41 ,48 C49 ,50 C51 ,52 C53 ,54			CE04KW1C220M CE04KW1H010M CK45FB1H222K CF92FV1H333J CF92FV1H334J	ELECTRO 22UF 16WV ELECTRO 1.0UF 50WV CERAMIC 2200PF K MF 0.033UF J MF 0.33UF J		
C55 ,58 C55 ,58 C59 ,60 C63 ,64 C67 ,68			CF92FV1H104J CF92FV1H683J CK45FF1H472Z CC45FSL1H101J CF92FV1H474J	MF 0.10UF J MF 0.068UF J CERAMIC 4700PF Z CERAMIC 100PF J MF 0.47UF J		LMXTP E E
C69 ,70 C71 ,72 C75 ,76 C77 ,80			CQ09FS1H221J CF92FV1H101K CQ09FS1H101J CF92FV1H334J	POLYSTY 220PF J MF 100PF K POLYSTY 100PF J MF 0.33UF J		

E: Europe K: USA P: Canada  
 U: PX(Far East, Hawaii) T: England M: Other Areas  
 UE: AAFES(Europe) X: Australia L: Scandinavia

⚠ indicates safety critical components.

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C81 ,82 C83 ,84 C85 ,88 C89 ,90 C91 ,92			CE04KW1V100M CE04KW1V100M CF92FV1H223J CE04KW1H010M CK45FB1H561K	ELECTRO 10UF 35WV ELECTRO 10UF 35WV MF 0.022UF J ELECTRO 1.0UF 50WV CERAMIC 560PF K		
C95 ,96 C101,102 C101,102 C105,106 C107,108			CC45FSL1H331J CE04KW1H101M CE04KW1H221M CE04KW1E101M CE04KW1E470M	CERAMIC 330PF J ELECTRO 100UF 50WV ELECTRO 220UF 50WV ELECTRO 100UF 25WV ELECTRO 47UF 25WV		E LMXTP E
C109,110 C112 C113 C114 C115			CF92FV1H103J CE04KW1H470M CE04KW1E101M CF92FV1H103J CF92FV1H224J	MF 0.010UF J ELECTRO 47UF 50WV ELECTRO 100UF 25WV MF 0.010UF J MF 0.22UF J		
C116,117 C118,119 C118,119 C120 C121			CK45FE2H103P C90-1662-05 C90-1663-05 CE04KW1E101M CE04KW1V4R7M	CERAMIC 0.010UF P ELECTRO 6800UF 50WV ELECTRO 6800UF 50WV ELECTRO 100UF 25WV ELECTRO 4.7UF 35WV		E LMXTP E
C121-123 C122,123 C124 C125 C126			CE04KW1V4R7M CE04KW1E471M CE04KW1H470M C90-1333-05 CE04KW1C220M	ELECTRO 4.7UF 35WV ELECTRO 470UF 25WV ELECTRO 47UF 50WV NP-ELEC 22UF 10WV ELECTRO 22UF 16WV		LMXTP E
C127 C128,129 C130,131 C132			CE04KW1C330M CE04KW1E470M CF92FV1H102J CF92V1H103J	ELECTRO 33UF 16WV ELECTRO 47UF 25WV MF 1000PF J MF 0.010UF J		E E
E1 E2 E3 E4 E4	1C,2C 1C,2C 1C,2C 1C 1C		E13-0235-05 E13-0621-05 E13-0814-05 E20-0473-05 E20-0474-05	PHONE JACK (2P) PHONE PHONE JACK (6P) LINE IN PHONE JACK (8P) TAPE SCREW TERMINAL BOARD(SPEAKERS) SCREW TERMINAL BOARD(SPEAKERS)		LMXP ET
E5	1B		E11-0160-05	PHONE JACK (7P) PHONES		
L3 ,4 L11 ,12			L39-0080-15 L40-1021-14	PHASE-COMPENSATION COIL SMALL FIXED INDUCTOR(1.0MH,K)		
CP1 ,2 R45 ,46 R45 ,46 R47 ,48 R47 ,48			R90-0187-05 RS14DB3D100JTE RS14DB3D4R7JTE RD14AB2E100JTS RD14AB2E4R7JTS	MULTI-COMP 0.22X2 K 5W FL-PROOF RS 10 J 2W FL-PROOF RS 4.7 J 2W FL-PROOF RD 10 J 1/4W FL-PROOF RD 4.7 J 1/4W		LMXTP E E LMXTP
R49 ,50 R51 ,52 R51 ,52 R83 ,84 R101,102			RD14AB2E330JTS RS14DB3D100JTE RS14DB3D4R7JTE RS14DB3D151JTE RD14AB2E221JTS	FL-PROOF RD 33 J 1/4W FL-PROOF RS 10 J 2W FL-PROOF RS 4.7 J 2W FL-PROOF RS 150 J 2W FL-PROOF RD 220 J 1/4W		LMXTP E E LMXTP
R101,102 R105 R109,110 R109,110 R111,112		*	RS14DB3A1R0JTE RD14AB2E4R7JTS RD14AB2E182JTS RS14DB3D182JTE RS14DB3D222JTE	FL-PROOF RS 1.0 J 1W FL-PROOF RD 4.7 J 1/4W FL-PROOF RD 1.8K J 1/4W FL-PROOF RS 1.8K J 2W FL-PROOF RS 2.2K J 2W		E LMXTP E
R114		*	RS14KB3A391JTE	FL-PROOF RS 390 J 1W		

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## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
R115 R116,117 R118 R126 VR1 ,2	2B	*	RD14AB2E100JTS RS14DB3D392JTE RS14DB3D332JTE RS14DB3D681JTE RD6-3048-05	FL-PROOF RD 10 J 1/4W FL-PROOF RS 3.9K J 2W FL-PROOF RS 3.3K J 2W FL-PROOF RS 680 J 2W POTENTIOMETER(10K B)BASS,TREBL		
VR3	2B	*	R19-5002-05	POTENTIOMETER(100K B)		
K1 S2 S3	1C 1C 1C	*	S51-2078-05 S29-4020-05 S29-8002-05	MAGNETIC RELAY ROTARY SWITCH(INPUT SELECTOR) ROTARY SWITCH(TAPE MONITOR)		
D1 ,2 D1 ,2 D13 ,14 D15 ,16 D15 ,16			1SS131 1SS178 E-452 HZS16N(B2) RD16ES(B2)	DIODE DIODE CONSTANT CURRENT DIODE ZENER DIODE ZENER DIODE		
D17 D17 D18 D18 D19			HZS15S(B) RD15JS(B) 1SS131 1SS178 DSM1A1	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D19 D20 D20 D21 D21		*	S5S66B D5SBA20F03 RBV-602LFA DSM1A1 S5S66B	DIODE DIODE DIODE DIODE DIODE		
D22 ,23 D22 ,23 D24 D24 D28			HZS16N(B2) RD16ES(B2) 1SS131 1SS178 HZS16N(B2)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D28 IC1 ,2 IC3 Q11 ,12 Q21			RD16ES(B2) M5218P-A UPC1237HA 2SC1845(F,E) 2SD882(Q,P)	ZENER DIODE IC(OP AMP X2) IC(POWER AMP) TRANSISTOR TRANSISTOR		
Q22 Q23 ,24 Q23 ,24 Q25			2SB772(Q,P) 2SA733(A)(Q,P) 2SA933S(Q,R) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
<b>MAIN AMPLIFIER UNIT (X89-1010-06: JAPAN MADE, X07-2362-74: SINGAPORE MADE)</b>						
C1 ,2 C3 ,4 C7 ,8 C9 ,10 C11 ,12			CF92FV1H474J CQ09FS1H101J CQ09FS1H101J CC45FSL1H220J CC45FSL1H101J	MF 0.47UF J POLYSTY 100PF J POLYSTY 100PF J CERAMIC 22PF J CERAMIC 100PF J		
C13 ,14 C15 ,16 C19 C20 C21			CC45FSL1H221J CK45FF1H103Z CE04KW1H101M CE04KW1H101M CE04KW1E470M	CERAMIC 220PF J CERAMIC 0.010UF Z ELECTRO 100UF 50WV ELECTRO 100UF 50WV ELECTRO 47UF 25WV		
C23			CE04KW1V100M	ELECTRO 10UF 35WV		
R13 ,14 R17 ,18 R23 ,24			RD14AB2E221JTS RD14AB2E221JTS RD14AB2E271JTS	FL-PROOF RD 220 J 1/4W FL-PROOF RD 220 J 1/4W FL-PROOF RD 270 J 1/4W		

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R27 -30			RD14AB2E4R7JTS	FL-PROOF RD 4.7 J 1/4W		
R31 -34			RD14AB2E221JTS	FL-PROOF RD 220 J 1/4W		
R35 -38			RD14AB2E2R2JTS	FL-PROOF RD 2.2 J 1/4W		
R45			RD14AB2E330JTS	FL-PROOF RD 33 J 1/4W		
R46			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		
VR1 ,2			R12-1070-05	TRIMMING POT. (1K B) IDLE ADJ		
D1 ,2			1SS133	DIODE		
D1 ,2			1SS176	DIODE		
D5 ,6			1SS131	DIODE		
D5 ,6			1SS178	DIODE		
D7			1SS133	DIODE		
D7			1SS176	DIODE		
Q1 -4			2SA992(F,E)	TRANSISTOR		
Q5 -8			2SC1845(F,E)	TRANSISTOR		
Q9 ,10			2SA992(F,E)	TRANSISTOR		
Q11 ,12			2SC2590	TRANSISTOR		
Q13 ,14			2SA1110	TRANSISTOR		
Q18 ,19			2SC945(A)(Q,P)	TRANSISTOR		

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